DPS Telecom

"Your Partners in Network Alarm Monitoring"

Controller Extension Box

USER MANUAL

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November 18, 2015 **D-UM-CTLEX**

Revision History

November 18, 2015	Specs update
November 21, 2012	Initial Release

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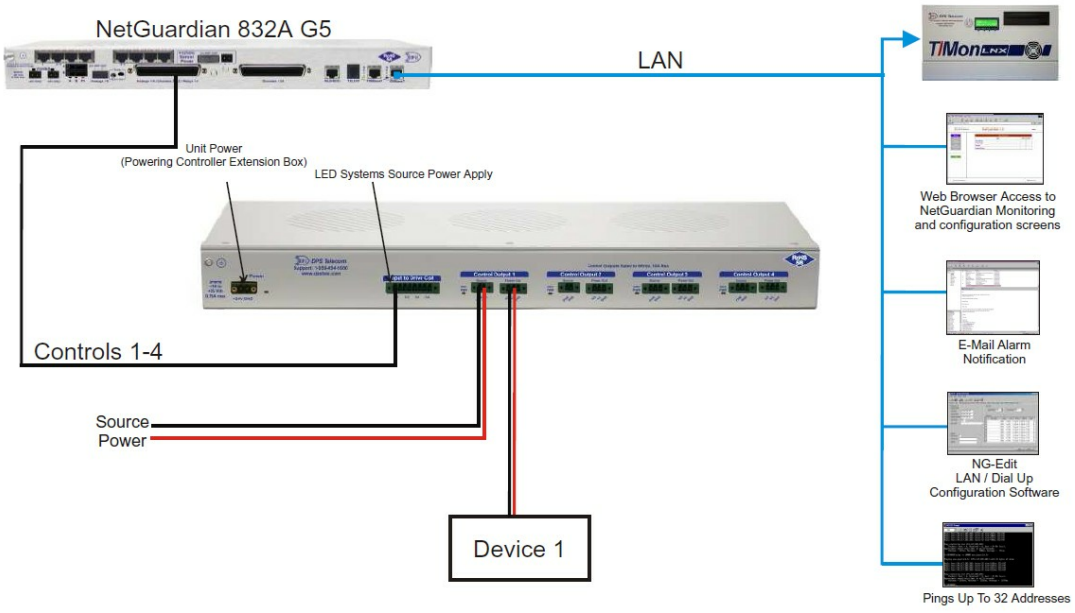
1 Controller Extension Box Overview

Fig. 1 - Use the Controller Extension Box to control power outputs to all of your external devices.

Effective, customized, power output controller
The Controller Extension Box is a compact relay box used to control power outputs. The unit is designed as a hardware accessory to complement the NetGuardian and enables relays from a single piece of equipment to control the power output into multiple devices. The Controller Extension Box is created to support high power-switching applications and enables the user to switch devices remotely on and off without visiting the site. The Controller Extension Box is designed for straightforward installation, making it cost-effective and convenient to control the power of your entire network.

A powerful, integrated monitoring solution
The Controller Extension Box is the perfect solution for switching devices beyond the load capacity of the NetGuardian. This device is customized to implement enhanced functionality for your network site by providing a number of integrated specifications:

- **+/-60 Vdc at 10A Switching Capabilities**
- **A Single +24 Vdc using Locking RIA Plug**
- **Extended Support for 4 Relays**
- **Individual Power Input for Each Relay**
- **Supports Switching for Either Positive or Negative Voltages (Relative to GND)**
- **Status Hardware LEDs for Coil & Source Inputs**



Example Application Drawing for Controller Extension Box

2 Shipping List

Please make sure all of the following items are included with your Controller Extension Box. If parts are missing, or if you ever need to order new parts, please refer to the part numbers listed and call DPS Telecom at **1-800-622-3314**.

Controller Extension Box
D-PK-CTLEX-12001.00001

User Manual
D-UM-CTLEX

x1

Power Connector Plugs
2-820-35102-00

x1

8-Pin Connector
2-821-10835-00

x4

Four 2-Pin Connectors
2-821-10235-00

x4

Four 3-Pin Connectors
2-821-10335-00

x2

19" Rack Ears
D-CS-325-10A-00

x2

23" Rack Ears
D-CS-325-10A-01

x4

Four Standard Rack Screws
1-000-12500-06

x8

3/8" Ear Screws
2-000-60375-05

x4

Four Metric Rack Screws
2-000-80750-03

3 Specifications

Dimensions:	1.7" H x 17.0" W x 4.34" D
Weight:	2.6 lbs.
Mounting:	19" or 23" rack or wall mount
Power Input:	+24VDC (18 to 30VDC)
Output Relays:	2.5A max @ 50V continuous
Current Draw:	80mA @ +24VDC
Fuses:	1/2 Amp Resettable Fuse (Internal)
Visual Interface:	4 Front Panel LEDs
	5 Back Panel LEDs
Operating Temperature:	32°–140° F (0°–60° C)
Operating Humidity:	0%–95% non-condensing
RoHS:	5/6
MTBF:	60 years

4 Installation

4.1 Tools Needed

To install the Controller Extension Box, you will need the following tools:

Phillips No. 2 Screwdriver

Small Standard No. 2 Screwdriver

4.2 Mounting

The Controller Extension Box can be flush or rear-mounted.

To **Flush Mount:**

Rack ears are installed at the front of the unit, with the front panel located flush to the rack.

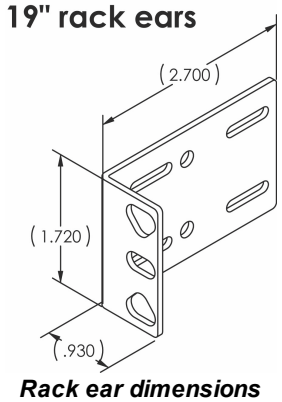
Flush Mount

To **Rack Mount:**

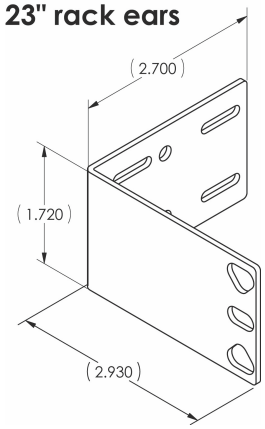
Rack ears are installed at the back of the unit.

Rack Mount

The Controller Extension Box mounts in a 19" or 23" rack, and can be mounted on the right or left, in the flush-mount or rear mount locations (see Fig. 2)



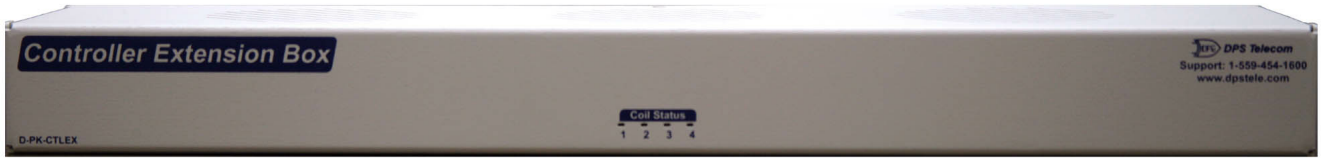
Rack ear dimensions



Rack ear dimensions

5 Controller Extension Box Panels

5.1 Front Panel



Front panel of the Extension Controller Box.

5.2 Back Panel

Back panel of the Extension Controller Box.

5.2.1 Power Connection

The Controller Extension Box is powered by two screw terminal barrier plug power connectors.

Screw terminal barrier plugs.

To connect the unit to a power supply, follow these steps:

1. Always use safe power practices when making power connections. Be sure to remove fuses from the fuse distribution panel, as well as the back of the unit (if externally fused), before making your power connections.

2. Use the grounding lug to connect the unit to earth ground. The grounding lug is next to the symbol ⏚. Insert the eyelet of the earth ground cable between the two bolts on the grounding lug (Ground cable not included).

3. Insert a battery ground into the power connector plug's right terminal and tighten the screw; then insert a battery line to the plug's left terminal and tighten its screw.

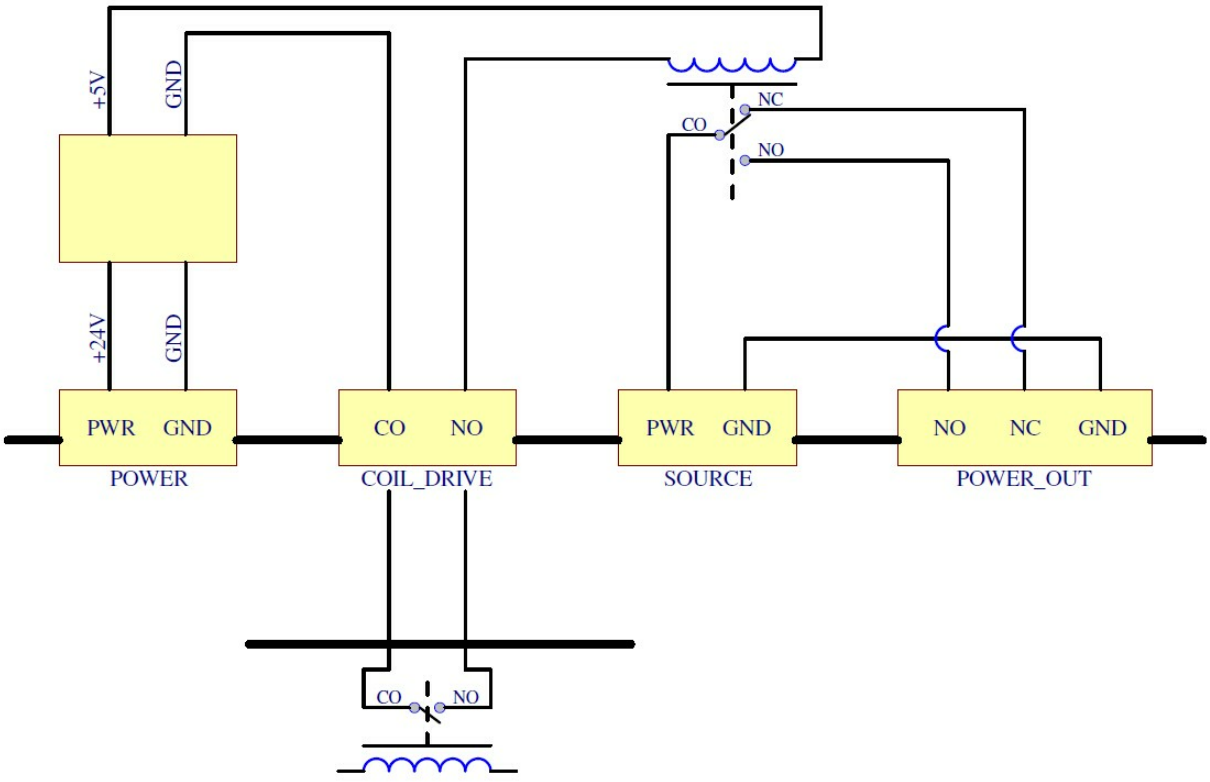
4. Insert a fuse into the fuse distribution panel and measure voltage. The voltmeter should read between +18 and +30VDC.

5. The power plug should be correctly inserted into the power connector to ensure the precise polarity. Note that the positive voltage terminal is on the left and the GND terminal is on the right.

6. Insert fuse into the Power A fuse slot (if externally fused). The power LED should be lit green.

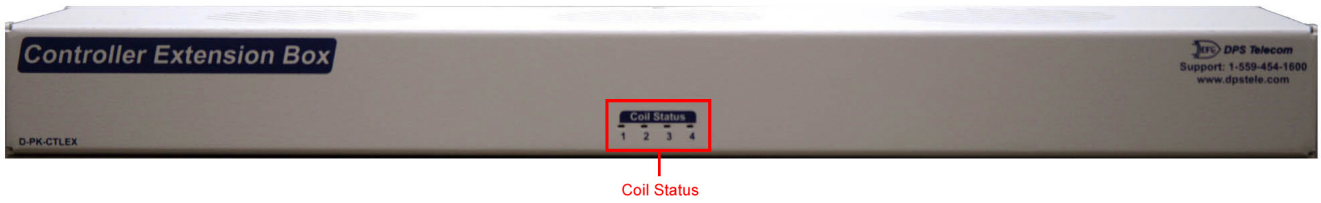
7. Repeat steps 1 -6 for Power B connector (if dual power option).

5.2.2 Controller Extension Box Diagram



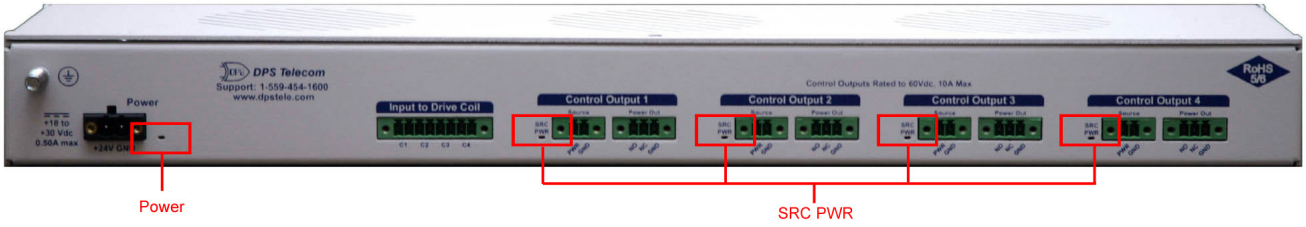
This figure explains how the controller box operates.

6 Front and Back Panel LED



Front Panel LEDs

LED	Status	Description
Coil Status	Green	Control output is latched.
	Off	Control output is released.



Back Panel LEDs

LED	Status	Description
Power	Solid Green	Power is on.
	Off	No power is available.
SRC PWR	Solid Green	Source power is available on the corresponding input.
	Off	No source power available on the corresponding input.

7 Technical Support

DPS Telecom products are backed by our courteous, friendly Technical Support representatives, who will give you the best in fast and accurate customer service. To help us help you better, please take the following steps before calling Technical Support:

1. Check the DPS Telecom website.
You will find answers to many common questions on the DPS Telecom website, at **http://www.dpstele.com/support/**. Look here first for a fast solution to your problem.

2. Prepare relevant information.
Having important information about your DPS Telecom product in hand when you call will greatly reduce the time it takes to answer your questions. If you do not have all of the information when you call, our Technical Support representatives can assist you in gathering it. Please write the information down for easy access. Please have your user manual and hardware serial number ready.

3. Have access to troubled equipment.
Please be at or near your equipment when you call DPS Telecom Technical Support. This will help us solve your problem more efficiently.

4. Call during Customer Support hours.
Customer support hours are Monday through Friday, from 7 A.M. to 6 P.M., Pacific time. The DPS Telecom Technical Support phone number is **(559) 454-1600**.

Emergency Assistance: *Emergency assistance is available 24 hours a day, 7 days a week. For emergency assistance after hours, allow the phone to ring until it is answered with a paging message. You will be asked to enter your phone number. An on-call technical support representative will return your call as soon as possible.*

8 End User License Agreement

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DPS Telecom's warranty and limitation on its liability for the Software is as described in the warranty information provided to End User in the Product Manual.

End User shall indemnify DPS Telecom and hold it harmless for and against any and all claims, damages, losses, costs, expenses, obligations, liabilities, fees and costs and all amounts paid in settlement of any claim, action or suit which may be asserted against DPS Telecom which arise out of or are related to the non-fulfillment of any covenant or obligation of End User in connection with this Agreement.

This Agreement shall be construed and enforced in accordance with the laws of the State of California, without regard to choice of law principles and excluding the provisions of the UN Convention on Contracts for the International Sale of Goods. Any dispute arising out of the Agreement shall be commenced and maintained only in Fresno County, California. In the event suit is brought or an attorney is retained by any party to this Agreement to seek interpretation or construction of any term or provision of this Agreement, to enforce the terms of this Agreement, to collect any money due, or to obtain any money damages or equitable relief for breach, the prevailing party shall be entitled to recover, in addition to any other available remedy, reimbursement for reasonable attorneys' fees, court costs, costs of investigation, and other related expenses.

9 Notes

*"**D**ependable, **P**owerful **S**olutions*
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more complicated networks with a
smaller, less trained staff"

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